

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/018406

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ H01J65/00, G02F1/13357

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H01J65/00, G02F1/13357

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2005
Kokai Jitsuyo Shinan Koho	1971-2005	Jitsuyo Shinan Toroku Koho	1996-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	JP 2003-317669 A (Uesuto Denki Kabushiki Kaisha), 07 November, 2003 (07.11.03), Mode for carrying out the invention; Par. No. [0028]; all drawings & WO 03/090252 A1	1-8, 20, 21 9 10-19
Y	JP 2000-277056 A (Toshiba Lighting & Technology Corp.), 06 October, 2000 (06.10.00), Par. No. [0116]; Fig. 2 & EP 948030 A2	9

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search
08 March, 2005 (08.03.05)

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Name and mailing address of the ISA/
Japanese Patent Office

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PCT/JP2004/018406

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2003-178717 A (Matsushita Electric Industrial Co., Ltd.), 27 June, 2003 (27.06.03), Par. No. [0032]; Fig. 1 (c) & US 2003/0052611 A1	1-21
A	JP 5-190150 A (Mitsubishi Electric Corp.), 30 July, 1993 (30.07.93), Par. No. [0022]; all drawings (Family: none)	1-21
A	JP 10-64478 A (Kabushiki Kaisha Erebanu), 06 March, 1998 (06.03.98), Full text; Fig. 2 (Family: none)	1-21
A	JP 2000-162593 A (Hitachi, Ltd.), 16 June, 2000 (16.06.00), Par. No. [0143]; Fig. 14 (c) & US 6331064 B1 & US 2002/0027774 A1	1-21
A	JP 2002-82327 A (Hitachi, Ltd.), 22 March, 2002 (22.03.02), Par. No. [0143]; Fig. 14 (c) & US 2001/0050735 A1	1-21
A	JP 11-329365 A (Quark Systems Kabushiki Kaisha), 30 November, 1999 (30.11.99), Full text; Fig. 2 & US 6194821 B1	1-21
A	JP 10-188908 A (Toshiba Lighting & Technology Corp.), 21 July, 1998 (21.07.98), Full text; Fig. 2 (Family: none)	1-21
A	JP 2001-196028 A (Harison Toshiba Lighting Corp.), 19 July, 2001 (19.07.01), Full text; all drawings (Family: none)	1-21
A	JP 2002-184360 A (Harison Toshiba Lighting Corp.), 28 June, 2002 (28.06.02), Full text; all drawings (Family: none)	1-21
A	JP 11-86797 A (NEC Home Electronics Ltd.), 30 March, 1999 (30.03.99), Claim 1; all drawings (Family: none)	9

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2000-311659 A (Harison Denki Kabushiki Kaisha), 07 November, 2000 (07.11.00), Claim 1; all drawings (Family: none)	9